

WHAT IS CLAIMED IS:

1. An image forming apparatus comprising:

an original document table which sets an original document;

5 a read section for a copy mode to optically read an image of the original document set on the original document table;

an input section for a printer mode, which is inputted with an image transferred from outside;

10 a print section which prints the image read by the read section and the image inputted to the input section, on a paper sheet;

a discharge port which discharges the printed paper sheet;

15 a sorter having a tray for the copy mode and a tray for the printer mode, which can move freely to a position corresponding to the discharge port, to receive the paper discharged from the discharge port, on any one of the trays;

20 a first key;

a second key; and

a control section which executes control of a first copy mode in accordance with an operation of the first key, control of the printer mode in accordance with an image input to the input section, and control of a second copy mode in accordance with an operation of the second key, wherein

25

095508.122601

in the control for the first copy mode, if
the tray for the copy mode is set at the position
corresponding to the discharge port when the first key
is operated, the read section and the print section
5 are immediately operated, or if the tray for the copy
mode is not set at the position corresponding to the
discharge port, the tray for the copy mode is moved to
the position corresponding to the discharge port and
the read section and the print section are operated
10 after completion of trays motion,

in the control for the printer mode, if the
tray for the printer mode is set at the position
corresponding to the discharge port when an image is
inputted to the first input section, the print section
15 is immediately operated, or if the tray for the printer
mode is not set at the position corresponding to the
discharge port, the tray for the printer mode is moved
to the position corresponding to the discharge port and
the print section is operated after completion of trays
20 motion, and

in the control for the second copy mode, when the
second key is operated, the read section and the print
section are immediately operated without moving each of
the trays.

2. The apparatus according to claim 1, wherein
the sorter has an elevation unit for moving up and down
each of the trays.

3. The apparatus according to claim 1, further comprising a control panel provided with the first and second keys.

4. The apparatus according to claim 1, further
5 comprising a receiving section for a facsimile mode to
receive an image which is facsimile-transmitted.

5. The apparatus according to claim 4, wherein
the print section further prints the image
received by the receiving section,

10 the sorter further has a tray for the facsimile
mode, and

the sorter further executes control for the facsimile mode, and in the control for the facsimile mode, if the tray for the facsimile mode is set at the position corresponding to the discharge port when an image is received by the receive section, the print section is immediately operated, or if the tray for the facsimile mode is not set at the position corresponding to the discharge port, the tray for the facsimile mode is moved to the position corresponding to the discharge port and the print section is operated after completion of trays motion.

6. The apparatus according to claim 5, wherein
the sorter has an elevation unit for moving up and down
25 each of the trays.

7. The apparatus according to claim 5, further comprising a control panel provided with the first and

second keys.

8. A method of controlling the image forming apparatus including

an original document table for setting an original document,

a read section for a copy mode to optically read an image of the original document set on the original document table,

an input section for a printer mode, which is inputted with an image transferred from outside,

a print section for printing the image read by the read section and the image inputted to the input section, on a paper sheet,

a discharge port for discharging the printed paper sheet,

a sorter having a tray for the copy mode and a tray for the printer mode, which can move freely to a position corresponding to the discharge port, to receive the paper sheet discharged from the discharge port, on any one of the trays, and

a first key, the method comprising:

a step in the first copy mode in which if the tray for the copy mode is set at the position corresponding to the discharge port when the first key is operated, the read section and the print section are immediately operated, or if the tray for the copy mode is not set at the position corresponding to the discharge port,

the tray for the copy mode is moved to the position corresponding to the discharge port and the read section and the print section are operated after completion of trays motion;

5 a step in the printer mode in which if the tray for the printer mode is set at the position corresponding to the discharge port when an image is inputted to the first input section, the print section is immediately operated, or if the tray for the printer
10 mode is not set at the position corresponding to the discharge port, the tray for the printer mode is moved to the position corresponding to the discharge port and the print section is operated after completion of trays motion and

15 a step in the second copy mode in which when the second key is operated, the read section and the print section are immediately operated without moving each of the trays.

20 9. The method according to claim 8, wherein the apparatus comprises a receiving section for a facsimile mode to receive image which is facsimile-transmitted,

 the print section further prints the image received by the receiving section,

25 the sorter further has a tray for the facsimile mode.

 10. The method according to claim 9, further comprising a step in a facsimile mode in which if the

00550000 122501

tray for the facsimile mode is set at the position corresponding to the discharge port when an image is received by the receive section, the print section is immediately operated, or if the tray for the facsimile mode is not set at the position corresponding to the discharge port, the tray for the facsimile mode is moved to the position corresponding to the discharge port and the print section is operated after completion of trays motion.

11. An image forming apparatus comprising:
- an original document table for setting an original document;
 - a read section for a copy mode to optically read an image of the original document set on the original document table;
 - an input section for a printer mode, which is inputted with an image transferred from outside;
 - a print section for printing the image read by the read section and the image inputted to the input section, on a paper sheet;
 - a discharge port for discharging the printed paper sheet;
 - a sorter having a tray for the copy mode and a tray for the printer mode, which can move freely to a position corresponding to the discharge port, to receive the paper sheet discharged from the discharge port, on any one of the trays;

a first key;

a second key;

control for a first copy mode in which if the tray
for the copy mode is set at the position corresponding
5 to the discharge port when the first key is operated,
the read section and the print section are immediately
operated, or if the tray for the copy mode is not set
at the position corresponding to the discharge port,
the tray for the copy mode is moved to the position
10 corresponding to the discharge port and the read
section and the print section are operated after
completion of trays motion;

control means for the printer mode in which, if
the tray for the printer mode is set at the position
15 corresponding to the discharge port when an image is
inputted to the first input section, the print section
is immediately operated, or if the tray for the printer
mode is not set at the position corresponding to the
discharge port, the tray for the printer mode is moved
20 to the position corresponding to the discharge port and
the print section is operated after completion of trays
motion; and

control means for the second copy mode in which,
when the second key is operated, the read section and
25 the print section are immediately operated without
moving each of the trays.

12. The apparatus according to claim 11, wherein

the sorter has an elevation unit for moving up and down each of the trays.

13. The apparatus according to claim 11, further comprising a control panel provided with the first and second keys.

14. The apparatus according to claim 11, further comprising a receiving section for a facsimile mode to receive image which is facsimile-transmitted.

15. The apparatus according to claim 14, wherein the print section further prints the image received by the receiving section, and

the sorter further has a tray for the facsimile mode.

16. The apparatus according to claim 15, further comprising

control means for the facsimile mode in which, if the tray for the facsimile mode is set at the position corresponding to the discharge port when an image is received by the receive section, the print section is immediately operated, or if the tray for the facsimile mode is not set at the position corresponding to the discharge port, the tray for the facsimile mode is moved to the position corresponding to the discharge port and the print section is operated after completion of trays motion.